4.2.6.2 Site Infrastructure

The SRS infrastructure would be capable of supporting any of the storage alternatives without major modifications to the existing infrastructure. A comparison of site infrastructure and facilities resource needs for the various storage alternatives is shown in Table 4.2.6.2–1.

No Action Alternative

Savannah River Site would continue to store current inventories of Pu which would be stabilized pursuant to DNSFB Recommendation 94-1 corrective actions. Pu storage would be in the soon to be constructed APSF in the F-Area which DOE decided to build after completing the *Environmental Impact Statement, Interim Management of Nuclear Materials* (DOE/EIS-0220, October 1995). Site infrastructure requirements under No Action could continue to be met with current site capacities and structures. As a result, there would be no impacts on the site infrastructure under No Action.

Upgrade Alternative

Preferred Alternative: Upgrade With Rocky Flats Environmental Technology Site Non-Pit Plutonium Subalternative

Modify Actinide Packaging and Storage Facility for Continued Plutonium Storage

Modification of the APSF to accommodate existing quantities of non-pit Pu material relocated from RFETS would have minimal impact on the site infrastructure. Data for construction are presented in Appendix C. Operations impacts would also be minimal. This subalternative requires an additional amount of coal over that needed for storage of SRS materials without the RFETS Pu and LANL Pu material. This additional requirement would have minimal impact on the site infrastructure.

[Text deleted.]

Upgrade With All or Some Rocky Flats Environmental Technology Site Plutonium and Los Alamos National Laboratory Plutonium Subalternative

Modify Actinide Packaging and Storage Facility for Continued Plutonium Storage

Modification of the APSF to accommodate existing quantities of RFETS and LANL Pu material would have a minimal effect on the site infrastructure. Data for construction are presented in Appendix C. Operational data are summarized in Table 4.2.6.2–1. As shown, site infrastructure resource requirements and associated impacts would be proportionately more than the upgrade with RFETS non-pit Pu materials.

Since impacts associated with relocating all of the RFETS Pu and LANL Pu material to SRS are minimal for both construction and operations, relocating only a portion of this material to SRS would result in minimal impacts to the site infrastructure as well. Additional electrical energy and coal requirements would be proportionately less than that required for storage for the full amount of RFETS Pu and LANL Pu material depending on the actual amount relocated to SRS.

Consolidation Alternative

Construct New Plutonium Storage Facility

Construction of a new consolidated Pu storage facility at SRS would have minimal impact on the site infrastructure. Data for construction are presented in Appendix C. Operations impacts to the SRS infrastructure

under this subalternative would be minimal. As shown in Table 4.2.6.2–1, less than 5 km (3 mi) of roads and less than 5 km (3 mi) of railroad lines would need to be added to the site. Some additional oil and coal would have to be provided as well. Additional oil and coal would be procured through normal contractual means. Electrical infrastructure requirements would be within site capacities.

Collocation Alternative

Construct New Plutonium and Highly Enriched Uranium Storage Facilities

Constructing new collocated Pu and HEU storage facilities to accommodate long-term storage of Pu and HEU at SRS would have minimal impact on site infrastructure. Data for construction are presented in Appendix C. As shown in Table 4.2.6.2–1, less than 5 km (3 mi) of roads and less than 5 km (3 mi) of railroad lines would need to be added to the site. Operations impacts to the SRS infrastructure under this subalternative would be minimal. As shown in Table 4.2.6.2–1, some additional coal and oil over that required for the consolidation of Pu alternative would be required. As for other alternatives, this additional amount would be procured through normal contractual means.

Subalternative Not Including Strategic Reserve and Weapons Research and Development Materials

Since the existing SRS site infrastructure would be capable of supporting construction/modification and operation of facilities for the Upgrade Alternative With All or Some RFETS Pu and LANL Pu, Consolidation Alternative, and Collocation Alternative, constructing and operating such facilities without including provisions for storage of strategic reserve and weapons R&D materials could be accommodated as well. Expected reductions in amounts of annual electrical energy requirements for the various storage facilities are the only site infrastructure changes expected if this subalternative is chosen because electric usage is dependent on the amount of material. [Text deleted.]

Phaseout

This phaseout would have no impact on the site infrastructure. While Pu storage operation would cease, the storage facilities would remain and utility service would continue until D&D is accomplished.